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MONTHLY REPORT

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LASER DISPLAY FEASIBILITY STUDY

Submitted by:

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Prepared by

Approved

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in reply refer to:

23 November 1964

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Subject: Laser Display Feasibility Study Monthly Status Report No. 5,
Task Order No. 04

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TECHNICAL PROGRAM STATUS

The review of papers and documents and the compilation of notes on optical modulation techniques is essentially complete. The notes will be maintained in a matrix format, and will be updated as new information is obtained.

A bibliography on "Optical Modulation Techniques and Equipment" has been compiled; copies of the papers referenced therein were obtained and used as the basis for the modulator comparison study mentioned above. A copy of the bibliography is included as an enclosure with this monthly report.

All of the initial studies of techniques are now essentially complete, and attention is being turned toward the systems aspects of the program. The results of the earlier techniques studies will form a basis from which trade-off studies may be performed. These trade-off studies are expected to result in a realistic definition of feasible display equipment for application to photo interpretation.

A conceptual design of a projection-type film viewer which uses a laser light source and is potentially capable of performing image enhancement functions is being investigated. This appears to offer an attractive means of producing a high-resolution, enhanced image, with the ultimate capability of full-color display. In addition, the possibility of using laser techniques to provide an improved type of light table is under study.

ADMINISTRATIVE STATUS

The program is progressing on schedule; no slippage is anticipated at this point in time. The percentage of the total estimated engineering dollars for the Contract Task Order expended as of 14 November is 26 percent.

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